

## Datasheet

### PDHA1 (phospho S293) polyclonal antibody (DyLight 488)

**Catalog Number:** PAB15341

**Regulatory Status:** For research use only (RUO)

**Product Description:** Rabbit polyclonal antibody raised against synthetic phosphopeptide of PDHA1.

**Immunogen:** Synthetic phosphopeptide corresponding to residues surrounding S293 human PDHA1.

**Host:** Rabbit

**Reactivity:** Human

**Applications:** WB

(See our web site product page for detailed applications information)

**Protocols:** See our web site at

<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

**Specificity:** This is specific to the phosphorylated Serine 293 form of the PDHE1 alpha protein. This antibody is useful for Western blot, where a band is seen ~43 KDa.

**Form:** Liquid

**Conjugation:** DyLight 488

**Recommend Usage:** Western Blot (1:2500-1:5000)

The optimal working dilution should be determined by the end user.

**Storage Buffer:** In 50 mM sodium borate

**Storage Instruction:** Store at 4°C. Do not freeze.

**Entrez GeneID:** 5160

**Gene Symbol:** PDHA1

**Gene Alias:** PDHA, PDHCE1A, PHE1A

**Gene Summary:** The pyruvate dehydrogenase complex is a nuclear-encoded mitochondrial matrix multienzyme complex that provides the primary link between

glycolysis and the tricarboxylic acid (TCA) cycle by catalyzing the irreversible conversion of pyruvate into acetyl-CoA. The PDH complex is composed of multiple copies of 3 enzymes: E1 (PDHA1); dihydrolipoyl transacetylase (DLAT; MIM 608770) (E2; EC 2.3.1.12); and dihydrolipoyl dehydrogenase (DLD; MIM 238331) (E3; EC 1.8.1.4). The E1 enzyme is a heterotetramer of 2 alpha and 2 beta subunits. The E1-alpha subunit contains the E1 active site and plays a key role in the function of the PDH complex (Brown et al., 1994 [PubMed 7853374]).[supplied by OMIM]